

## ABSTRACT OF THE DISCLOSURE

A spatial diversity combiner comprises a plurality of feed forward equalizers (FFE), a decision feedback equalizer (DFE), and a tap control circuit. The plurality of FFEs receive spatially diverse replicas of an RF signal and optimally combine them. The DFE provides feedback for tap weight control and optimal equalization of the transmission channel. Symbol error is generated by a slicer circuit or by a maximum likelihood sequence estimation (MLSE) process.